

ABSTRACT

The present invention is a heat-resistant film comprising at least any one of a polybenzazole, aramid and polyamideimide produced by introducing a thin film made by a roll, slit or press from a polymer solution sandwiched between at least two supports into a coagulating bath and peeling the supports off in the coagulating bath to effect the coagulation, and a composite ion-exchange membrane having a surface layer consisting of an ion-exchange resin excluding a porous film on the both side of a composite layer formed by impregnating said film with the ion-exchange resin. A heat-resistant film having a combination of excellent heat resistance, mechanical strength, smoothness and interlaminar peeling resistance, especially a microporous heat-resistant film, and a composite ion-exchange membrane employing the same which has an excellent ion conductivity are provided.